

PACIFIC NORTHWEST NUMBER THEORY CONFERENCE

University of Washington

June 1-2, 2013

CONFERENCE REPORT

The Pacific Northwest Number Theory Conference is a smaller annual conference that aims to provide an opportunity for number theorists in the northwestern US and western Canada to come together and hear about exciting research taking place in the region.

The location of the conference rotates among institutions in the Pacific Northwest, being organized on a purely volunteer basis. This year saw the conference take place at the University of Washington in Seattle over the weekend of 1-2 June. The conference consisted of 9 talks on a diverse range of number theoretic topics. The list of speakers and talk titles, in order of speaking, are below:

Álvaro Lozano-Robledo (U. Conn.)	Uniform Boundedness in terms of Ramification
Mike Bennett (UBC)	Integral Points on Congruent Number Curves
Michael Naehrig (Microsoft Research)	Curves and Fields for Efficient Cryptographic Pairings
Katherine Stange (U. Colorado, Boulder)	The Sensual Apollonian Circle Packing
Samuel S. Gross (Rocky Mountain College)	49598666989151226098104244512918
Adam Felix (U. Lethbridge)	Various Generalizations of Artin's Conjecture for Primitive Roots
Benjamin Lundell (U. Washington)	Elliptic Curve Discriminant Twins
Jennifer Johnson-Leung (U. Idaho)	Twists of Paramodular Vectors
Matthew Greenberg (U. Calgary)	Eisenstein Cocycles on $GL_n(\mathbb{Q})$

A PDF of abstracts for the talks can be found via a link on the left at the conference website:

<https://sites.google.com/site/pnwntc2013/>

Videos of the talks will also be made available on the website in due course.

The conference was attended by 28 individuals total, listed on the next page. The talks were well received, generating some good discussion among the participants. Further to the talks, a pay-your-own-way conference dinner was organized for the Saturday night at a local restaurant.

The conference had a total operating budget of \$6000 thanks to generous grants from Microsoft Research, the Number Theory Foundation, the Pacific Institute for the Mathematical Sciences and the University of Washington's Milliman Fund. The majority of this funding went towards providing travel and lodging support for the speakers and those attendees who applied for funding, the latter consisting mostly of graduate students. Further to this some funding was used to provide the attendees with conference packets, as well as for supplying refreshments both mornings. If you would like a detailed cost breakdown, please email Simon Spicer at pnwntc@gmail.com.

PNWNTC 2013 Attendees

NAME	INSTITUTE	POSITION
Michael Naehrig	Microsoft Research	Researcher
Samuel Gross	Rocky Mountain College	Post-Doc
Leanne Robertson	Seattle U.	Faculty
Avinash Kulkarni	Simon Fraser U.	Grad Student
Jonas Jankauskas	Simon Fraser U.	Post-Doc
Navid Alaei	Simon Fraser U.	Grad Student
Ryan McMahan	Simon Fraser U.	Grad Student
Stephen Choi	Simon Fraser U.	Faculty
Matt Greenberg	U. Calgary	Faculty
Jonathan Wise	U. Colorado, Boulder	Faculty
Katherine Stange	U. Colorado, Boulder	Faculty
Álvaro Lozano-Robledo	U. Connecticut	Faculty
Jennifer Johnson-Leung	U. Idaho	Faculty
Adam Felix	U. Lethbridge	Post-Doc
Alyson Deines	U. Washington	Grad Student
Anh Huynh	U. Washington	Grad Student
Benjamin Lundell	U. Washington	Post-Doc
Bharath Palvannan	U. Washington	Grad Student
Hao Chen	U. Washington	Grad Student
R. Andrew Ohana	U. Washington	Grad Student
Ralph Greenberg	U. Washington	Faculty
Simon Spicer	U. Washington	Grad Student
William Stein	U. Washington	Faculty
Carmen Bruni	UBC	Grad Student
Greg Martin	UBC	Faculty
Malcolm Rupert	UBC	Grad Student
Mike Bennett	UBC	Faculty
Nathan Hamlin	Washington State U.	Faculty

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